
Product Data Sheet

Product Name: CD8B Human, Sf9
 Cat. No.: GP23016
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CD8b Molecule; CD8 Antigen; Beta Polypeptide 1 (P37); CD8B1; T Lymphocyte Surface Glycoprotein Beta Chain; T-Cell Surface Glycoprotein CD8 Beta Chain; CD8b Antigen; Leu2; LYT3; P37; LY3; T-cell surface glycoprotein CD8 beta chain.		
Amino Acid Sequence	ADPLQQTPAY IKVQTNKMVM LSCEAKISLS NMRIYWLRQR QAPSSDSHHE FLALWDSAKG TIHGEEVEQE KIAVFRDASR FILNLTSVKP EDSGIYFCMI VGSPELTFGK GTQLSVVDFL PTTAQPTKKS TLKKRVCRLP RPETQKGPLC SPHHHHHH.		
Formulation	CD8B protein solution (0.5mg/ml) contains 10% glycerol & Phosphate Buffered Saline (pH 7.4).		

Introduction

CD8B encodes the CD8 beta chain isoforms of the CD8 antigen. CD8 is a cell surface glycoprotein which facilitates efficient cell-cell interactions within the immune system and is located on most cytotoxic T lymphocytes. The T-cell receptor on the T lymphocyte and the co-receptor CD8 antigen identify antigens exposed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional co-receptor is either a heterodimer composed of one alpha and one beta chain or a homodimer composed of two alpha chains. Both alpha and beta chains share substantial homology to immunoglobulin variable light chains.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

CD8B produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 158 amino acids (22-170a.a.) and having a molecular mass of 17.8kDa. (Molecular size on SDS-PAGE will appear at approximately 18-28kDa). CD8B is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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